

Experimental analysis of dynamic susceptibility of selected elements of the railway braking system

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Abstract: The research results presented in this article relate to the analysis of dynamic properties of selected elements of the railway braking system. In the article for elements of a complete caliper from a railway passenger car with a disc brake system, an impulse test was carried out to estimate the frequency of resonance vibrations of these elements. The obtained natural frequencies from the tested elements were grouped taking into account their mutual location. The authors pointed out that some elements of the braking system have a common natural frequency, which can affect the vibrations of the disc brake system during braking.

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